

ABSTRACT

A private enterprise network system for secure nonencrypted data transmission between computers of an entity but not over the Internet or other public, global computer network. At least one of the computers is connected to a shared, private backbone via an xDSL system. The private enterprise network is adapted to provide secure data transmission to multiple entities over the shared, private backbone. Further, the addresses of the computers in the entity may be of any suitable IP space, and different entities may have addresses in the same IP space. The addresses of the data transmitted are translated by a translation system that changes the entity addresses to private addresses for routing through a switch and router array system that has entity dedicated channels based on the private addresses. After exiting the switch and router array system, the data moves through the translator again and the private address is translated back to the entity address and the data is transmitted to the desired computer.